LAB Programe-1 Develop ver Java program that prints call real so lutions to the quadratic equation ax tbx +c-o. Read in a bac cand use the quadratic formula of the discriminate be-49c is negative, display a message stating that there are no soul solutions. Algoth Algorithm: In all 1) Take input of values a, b, a 2) caloractate the D = 63 - 490 value - 10 3) if Dis positive point the real roofs use formula r. st -b f Jop allorg door moing. 4) if D is negative print the imaginary tooks using $\gamma = -b \pm i J \vec{D} = -b \pm J - \vec{D}$ Programe: import Javec wil. # 5 class Quedratic Equations C public estatic void main (String angs ED) double x1, x2; Scamper . Sc = new Scanner . Cogstern in): System - out. println . (11 Enter a, b, c value: 1+1).

double a = Sc. next Boable (); double b = Sc. next Double (); double c = Sc. nextbouble(); double D=bb-4tate; of CDCO)d System out println ("Im aginary roots:"+

(-b/3/a) + "(f "(f "(math: syst (-b)/3/a) + "[i]");

System out pointln ("Imaginary roots:"+ (-b/2/a) +

"-"+ "(math syrt (-b)/3/a) + "[i"]. System out printly ("real roots: ") + x1)
System out printly ("real roots: ") + x1) Enter as 6,0 value: Imaginary root 1: 1.0+1.01 Imaginary root 3: 1.0+1.01

LAB2 programs: Develop a Jave program to create a class Student -with members up, name, an array credits &, -an array marks. Inchede methods to accept &,-display obtails and a method to calculate SG. of astudent. 2 taibull roots Take imput of VSn; namy, Coedits, marks. acapt () will assign values its the usn; name, FindSqpa () will calcuate the Sqpa of the Student;

Forom for loop we get when of Caredited marked

Sach subject)

then Find Sqpa by using formula

Sqpa = Total Sum (Sumofarilet 19)

Carediff marks chisplay () will display USN, Nam, total

Program: Import java, will " class Student & p int USN ; nounce int [] whedits a new int (100). int C3 marks = new Int C100]; void acoppt Cint view, (not E) creadits, into) marky this - Usnz Usnigardes line this credits = wadits on and rate on this marks = marks; this in name zoname grade 1000 2 has word display Cdouble tot , Int Sg pa) &
System out-printly ("In Manne: "I name "In Ush
Usn + "Intotal marks: "I + bot + " In Sg pa 2" int Eind Sapa Cint Usum) L int 2900; intsum =0, V=0-, for (int x: marks) (Sym == Ccredits [v+1] +x); 3
Sga = sum| (vsvm 10); rower (Sapa);

